DXpedition News

Afghanistan - YA Romeo and YL1WW have been very active, especially on CW, but with a weak signal. On the West Coast, **YAØRR** has been noted 0230-0400Z on 14020 kHz, and 03-0500Z on 14225 kHz. East Coast stations report YAØRR on 7003 kHz at 23-0300Z, and 28495 kHz at 13-1400Z. The operators hope to move to a better location, and improve their signal. QSL route in Issue 569.

Lord Howe Island - VK9 DXNS reports that DJ5CQ and Y21RM will sign **VK9LM, VK9LA,** and **AX9LM** from Lord Howe (OC-04) Feb. 15-March 6, on all bands. Mostly CW, 1.5 kHz up, with some SSB. They caution that anyone duping them on the same band/mode will find contacts deleted from the log.

Cameroon - TJ Sylvio F6EEM and his wife Florence F6FYP will be active as **TJ5CW** and **TJ5YL** from Feb. 15, CW, SSB, and RTTY, 160-10 meters.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Anguilla - VP2E Bob Reiser AA1M and Ray NR1R will operate **VP2E/** Jan. 28-Feb. 4 from (NA-22). CW and SSB, 160-6 meters. QSL respective home calls, with SASE with 29¢ stamp, please. Sunrise 1040Z; sunset 2200Z.

Revillagigedo - XF4 DXNS reports that XE1BEF, XE1J, and XE1ABA will operate as **XFØC** from Clarion Island in the Revillagigedo chain Jan. 18-Feb. 3. All bands 160-10 meters, SSB, with some CW and RTTY. QSL XE1BEF. Sunrise 1400Z; sunset 0105Z. (The operators hope for separate DXCC status from XF4, but Clarion is only 200 miles other XF4 islands.)

January 18, 1991 **Issue 571**

Reserve Your Island

▪ **ZD8Z**: Jim Neiger N6TJ's Ascension Island (AF-03) trip has been pushed back another week, to Jan. 22-29, This means he'll be active in the CQWW 160-Meter CW test Jan. 25-27. Look for Jim around 1838 kHz. Sunset 1910Z; sunrise 0652Z. QSL W6CF.

▪ **KP2A** will again be operated by Ken Byers K4TEA in the CQWW 160-meter CW test. Sunset 2200Z; sunrise 1045Z. QSL all KP2A contacts to W3HNK.

▪ **VP5V** will again be active as a multi-single entry in the ARRL SSB DX test Mar. 2-3. Outside the test, Mar. 1-8, the operators will be on CW and the digital modes, and on the new bands. QSL VP5V in 1989 and 1991 to WD4JNS.

▪ **PJ2J** from Curaçao will be single-oped by Jack Schuster W1WEF in the ARRL CW test Feb. 16-17. QSL to K1CPJ.

Shortly Noted

▪ Walt Brenner DJØFX should be active as **FOØPT** for about three weeks from Moorea (OC-46). QSL home call.

▪ **IJ4R** is a special call to commemorate the 140th anniversary of the birth of Augusto Righi, an Italian scientist who assisted Marconi. Look for IJ4R Jan. 25-31, including the 160-meter CW test, and March 1-31. QSL I4USC. (Thanks DXNS.)

▪ **XQØX** on San Felix continues to be quite active on 14236 kHz at 02-0300Z and 28495 kHz at 17-2300Z. Also try 21295 kHz at 0230Z. QSL to CE3ESS.

▪ **A71CD** is often in a list operation on 28650 kHz at 1300Z. QSL via new manager WA4JTK.

▪ **Armenian** stations are using the prefix **UG17ØØ** to commemorate 1700 years of Christianity. QSL to corresponding UG6/7.

▪ **TU4CO/TT8** is active on CW from Chad, but admits he had verbal permission only, and his operation will probably **not** count for DXCC.

▪ The **7O8AA** documentation has been accepted, and 7O8AA QSLs will be credited to the new DXCC country of Yemen **on or after March 1**. 7O cards sent to ARRL Hq. before that date will be returned without credit.

▪ **A41JZ** is often on 3502 or 7002 kHz at 02-0300Z Wednesdays.

▪ **Canadian postage** to the US went up 1¢ the first of the year. Use 46¢ worth of Canadian stamps for return postage to the US.

▪ **SSB net** check-ins: **14160 kHz**: 3X1AU; **14222**: 4S7EF VO2TM ZS8MI; **14227**: TU2PA VK6RU 6W1QB OX3EW 7P8CI V85GA VQ9CQ BY1QH Z21GZ; **14256**: 8R1RBF JX7DFA**: 21335**: 5T5/N5JRC 5V7DP SV9AHZ V51MA TL8SC TU2JL ZD8DX C31SD 7X2CR SV2ASP/A ZD9BV UD6DR AP2JZB ZC4CC 3B9FR Z21GZ.

▪ **Islands On The Air**: **LA4MQ** on (EU-33) has checked into the net on 14256 kHz at 2330Z. **VE7VP** on (NA-75) and **VE7GKH** on (NA-61) have been logged in the net on 14227 kHz at 2000Z. **UV1AD** on (EU-97) was noted on 14015 kHz at 1330Z; QSL to Box 320, Kronstadt, 189610 USSR. **NL7VT** on (NA-19) has been on 14222 kHz at 2300Z. **NL7BY** on (NA-41) has been on 14222 kHz at 0000Z. An operator from the VE8RCS club station is aiming to operate from **KL7FBI** (NA-37) Jan. 28-Feb. 5.

Propagation

Forecast and Historical Data

Day	Forecast	27 Days Before			55 Days Before			
January 1991		Date	Flux	A K	Date	Flux	A	K
18	Above Normal	12/22	184	04/04 1	11/24	171	01/05	0
19	Above Normal	12/23	191	07/05 2	11/25	167	04/05	1
20	High Normal	12/24	189	10/12 2	11/26	157	08/09	1
21	High Normal	12/25	190	11/10 2	11/27	157	29/33	4
22	Above Normal	12/26	192	03/04 1	11/28	170	14/15	4
23	Above Normal	12/27	197	05/06 1	11/29	165	03/05	2
24	Above Normal	12/28	193	03/04 1	11/30	165	07/08	2
25	Above Normal	12/29	200	02/03 2	12/01	176	03/05	1
26	Above Normal	12/30	196	11/07 2	12/02	182	03/05	2
27	High Normal	12/31	184	11/09 2	12/03	193	04/05	2
28	High Normal	01/01	186	05/08 0	12/04	203	15/14	3
29	High Normal	01/02	181	11/09 2	12/05	218	10/13	3
30	High Normal	01/03	173	13/11 0	12/06	228	08/08	2
31	High Normal	01/04	173	05/06 1	12/07	226	04/05	2

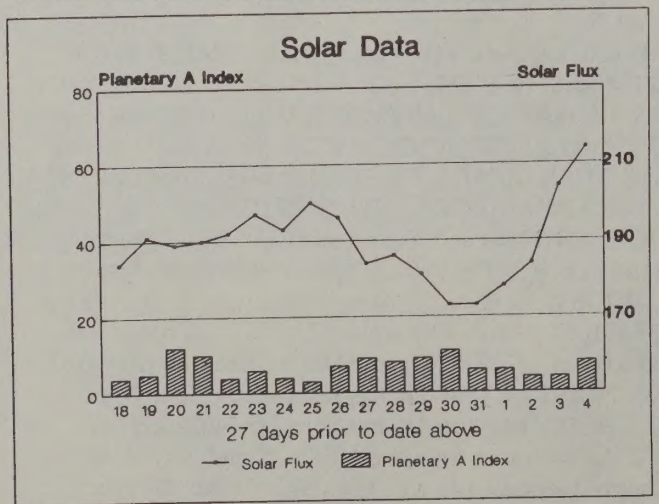
Propagation Watch

DXers continue to enjoy above average band conditions, for the third month in a row. Solar activity has remained high enough to give DXers excellent openings on the higher HF bands during daylight hours, and the geomagnetic field has remained stable enough to permit good DXing on the low bands at night.

Solar activity will probably drop over the next week or so, before increasing again as the month ends. Two large, active sunspot regions, #6444 and 6447, will rotate around the back of the sun early this week. As they do so, watch out for flares and disappearing filaments that may temporarily disrupt the bands.

The only negative aspect of current propagation is a StratWarm condition. This seasonal phenomenon occurs when the stratosphere in North polar regions heats up, and mixes with the lower levels of the ionosphere. In theory, this increases absorption on polar path, and reduces signal strengths. (However, at a 1990 propagation seminar, some European experts denied that StratWarm had much effect on HF propagation.)

Except for the StratWarm, the bands should continue their usual pattern: good long-path openings on 40-20 meters beginning a hour or so before local dawn, good daylight openings on 15-10 meters (in the direction of the sun), and good evening openings to the east on 20-40 meters. Check 80 meters when the K index is 1 or 0.



Franz Josef Land DXpedition

Interested in a joint Soviet-US DXpedition to Franz Josef Land? Jim Smith KA7APJ is helping organize the US side of a three-week excursion to this remote Soviet island April 4-29, 1991. The trip will include visits in Moscow to the Central Radio Club and Moscow-area hams, before flying to Hase Island in the FJL archipelago. Cost will be approximately US$1,500-2,000, depending on the number of US participants, plus transportation to the USSR and return. The Soviet hosts will help with some of the special clothing required, but participants should be prepared for temperatures that average -10 to -30° Celsius.

The primary purpose of the expedition is to choose skiers who will attempt to cross Antarctica on skis late in 1991. This Antarctic trip is sponsored by the Geographic Society of the Soviet Academy of Sciences, and the SPART company, along with the Travellers Association of the USSR, and the Association of Soviet Polar Explorers. They intend to use amateur radio to maintain contact with the skiers. Hence the April 'training' mission.

A unique opportunity on the Franz Josef Land trip is related to the youth theme of the operation. Two young men, preferably 13-16 years old, will be invited to join the trip, with trip sponsors paying all expenses on the Moscow-FJL and return portion of the trip. The two young US amateurs will be joined by two young Soviet amateurs for the trip.

For more information about this unique opportunity, contact Jim Smith at 4711 NE 50th, Seattle WA 98105, or call him at 206-524-5958 (facsimile number: 206-524-7826.)

DXCC Backlog

Barry Shelley of ARRL Headquarters reports that the DXCC backlog has been reduced to 3,474 pending new applications and endorsements. The project team processed 194 during the week ending Jan. 6, and received only 84 new ones. As of Friday, Jan. 4, they were working on new applications received Sept. 27, and endorsements received July 12. (In reviewing the backlog, they noticed that 230 new applications had been counted twice, and the above numbers have been corrected to reflect this error.) At the current rate of progress, the DXCC backlog will be eliminated in mid-1991.

DX Gatherings

- The Northwest DX Convention will be held July 27-28 at the Richmond Inn, in Richmond, British Columbia (near the Vancouver BC airport). Attendees may make their hotel reservations by calling 604-273-7878. The sponsoring British Columbia DX Association will mail registration materials to DXers who attended previous NWDX conventions.
- The 1991 International DX Convention will be held at the Holiday Inn in Visalia CA April 12-14. Pre-registration (before March 15) is $45, and includes the Saturday night banquet and Sunday morning brunch. Send reservations to Louese Bloom KA6ING, 2520 Heather Lane, San Bruno CA 94066. The Holiday Inn has been sold out for months, but accommodations are still available at the Radisson Hotel 209-636-1111, and shuttle service will be available to the Convention hotel. American Airlines has reduced air fares; ask for STAR S3141W8 when making flight reservations. Again this year, *The DX Bulletin* sponsors the Friday cocktail party; plan to attend and say hello.

B • A • N • D • P • A • S • S

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet. All "portable" calls listed with country of operation first, regardless of format used on the air.*

S	M	T	W	T	F	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

RTTY

EA8AKQ	28081	1825	5	OH
LY1BZB	28086	1525	5	OH
PZ2AC	21091	1825	7	CA
TF/KEØYG	28085	1447	28	OH
UB5IDU	21086	1640	1	OH
V51P	21084	2010	1	OH
VP2EE	14080	0310	4	OH
VP2EE	21089	2051	6	MD
VP8CEL	14083	0040	3	OH
VR6WH	14084	0145	10	CA
YS/ WD4IFN	28093	1515	6	FL
ZD9BV	21085	1830	11	CA

160 Meters

AHØF	1827	1204	7	NH
HB9AMO	1831	0501	8	NH
HKØHEU	1843	0304	5	FL
VP2EXX	1837	0415	8	NH
ZS4PB	1838	0330	3	FL

80 Meters

3C1EA	3501	2230	30	IA
6W1QB	3501	2125	1	MA
6W6JX	3504	2227	5	IL
9L1US	3501	2117	2	MA
9M2AX *	3502	2148	5	MA
A41JZ	3501	0144	3	MA
A92BE	3593	0311	6	PA
JWØGB	3520	2235	7	IL
OY1CT	3503	0833	6	WV
OY7ML	3502	0073	4	IA
TF3DX	3501	0840	6	WV
TU2MA	3501	2110	1	MA
UAØFM *	3500	2148	3	MA
UG6GAW	3500	2230	29	IA
UH8EA	3511	0212	3	MA
UJ8KA	3503	0228	3	MA
V73AS	3507	0754	4	CA
VS6BG *	3509	2238	5	MA

75 Meters

4Z4UR	3799	0452	3	NC
5NØETP	3793	2210	1	MA
5V7SA	3799	2117	5	MA
8R1RBF	3798	0240	30	IA
A92BE	3799	0058	1	MA
FR5DX	3797	2129	3	MA
TA1AR	3800	0246	3	MA
TL8CK	3799	2113	2	MA
VK6LK *	3797	2117	4	MA
VQ9CQ *	3795	1611	29	WA
ZC4DG	3800	0242	3	MA

40 Meters

3D2AG	7010	1227	30	VA
3DAØBK	7010	0315	4	MN
4K2OIL	7003	1330	29	IA
7X4AN	7002	2317	6	MI
9V1XQ	7006	1253	6	MI
A41JZ	7002	0311	27	MA
A92BE	7045	2010	4	NS
BV2TA	7006	1358	6	IL
C3ØEDA	7007	0210	10	MN
C53GS	7010	2216	5	IL
EA9OE	7006	0924	2	NC
PZ1DW	7010	0420	8	IL
RVØYF	7006	0145	7	IA
RW9HZZ	7010	1315	7	IA
SV9BAI	7003	0034	2	NH
UH8EA	7005	2220	26	IA
UJ8JDT	7078	2021	3	NS
UJ8JI	7006	0220	1	IA
UJ8JI	7011	2228	4	NS
UJ8JI *	7012	1231	2	MA
V73AS	7007	1332	1	NC
VP2EXX	7016	0022	3	VA
VS6DO	7005	1227	3	MA
VU2TEC *	7005	1245	2	MA
YAØRR	7002	2233	10	IL

30 Meters

3DAØBK	10103	0352	10	CA
4K2OIL	10101	0745	31	CA
4K2OIL	10103	2100	31	NH
4U1UN	10106	2136	22	NY
9M2AX *	10107	2332	1	SC
EA6ZY	10101	2046	6	FL
EA8AB	10108	2315	1	SC
FP5DX	10105	0514	5	CA
FP5DX	10102	2104	4	NS
T77GM	10101	0100	1	VA
TR8XX	10106	2013	30	NY

20 Meters

3B8FK	14020	0239	5	NY
4K4BEU	14016	0041	7	NH
4S7CF	14026	0015	6	NH
4S7CF	14025	1250	4	MA
4S7EA	14009	0038	6	CA
4S7NE	14015	0125	1	CA
4S7TP	14005	2350	5	NH
4S7WP	14009	1308	6	WV
4S7WP	14005	1920	31	CA
4S7WP	14008	2340	30	MI
4S7WPA	14008	0105	30	MI
5NØSKO	14023	2100	30	VA
6W1PZ	14020	0139	6	NY
6W2EX	14020	0134	1	NY
6W6JX	14020	2336	5	WV
7Q7EC	14021	1613	5	CA
9M2AX	14026	0011	7	NY
9V1JY	14021	0010	7	NY
A22GH	14009	2304	4	ID
A41JV	14014	1800	5	NY
CN8ST	14010	2008	1	SC
FH5EJ	14012	0207	1	CA
FR5DD	14020	0402	30	MI
HFØPOL	14002	0350	9	ID
HKØBKX	14024	1340	7	VA
JT1CS	14031	0042	8	VA
OY1CT	14027	1248	1	GA
P29AC	14003	1412	7	VA
P29DK	14012	1245	29	VA
TF3DX	14005	0140	9	ID
TR8GL	14021	2100	6	NH
UH9YWA	14028	2349	7	VA
UJ8JX	14018	0007	8	VA
UL7DCT	14021	0307	29	ID
UL7GDX	14018	0348	31	FL
V73AS	14003	0153	2	NC
VS6DO	14028	1327	1	VA
VU2CJX	14024	0130	7	NY
VU2CPX *	14031	0200	5	CA
VU2NTA *	14008	0205	3	CA
VU2TE	14028	0200	7	CA
VU2TTC	14011	1250	2	MA
VU2ZAP	14007	0200	7	CA
Y9ØANT	14005	0115	2	SC
YAØRR	14020	0445	10	IL
Z21CA	14034	0419	25	NY
ZD8LII	14018	2017	2	NH
ZS7ANT	14020	2150	1	NH

20 Meter SSB

3B8FU	14195	1931	30	CT
4K2BDU	14176	0315	5	WV
4S7EA	14191	0130	28	MA
4S7EF	14220	0139	28	MA
4U/ VE4ANM	14160	0304	10	CA Golan Heights (Syria)
9N1MM	14177	0111	28	WA
9Q5TE	14192	0520	26	CT
A71BK	14203	1510	31	CA
AP2HQ	14174	1454	29	IL
AP2ZR	14178	0238	7	MN
AP5HQ	14177	0250	5	WV
FT4WC	14160	2038	4	NS
HKØTCN	14195	0405	3	MI
TU2UI	14236	0232	4	MI
UH8EA	14195	1320	27	MA
UJ8KA	14168	0300	5	WV
UJ8SAD	14178	0302	5	WV
UL7NW	14212	0333	5	WV
XQØX	14235	0154	6	IL
Y9ØANT	14272	0328	2	CT

17 Meter CW

4K2PGO	18072	1410	6	FL
A22AA	18077	2107	1	MI
JD1/ JA9PRJ	18099	0220	6	va

17 Meter SSB

AP2JZB	18111	1354	2	VA
7P8CI	18157	2120	6	NS
7Q7JA	18122	1855	6	NS
9X5NH	18111	2335	5	IA
CN8GI	18143	1904	6	NS
RA9YD	18137	1227	6	NS
UJ8KA	18137	1228	6	NS

15 Meter CW

9M6HF	21004	0135	5	CA
9V1YC	21025	0110	9	OH
9X5HG	21024	2102	8	OH
A22GH	21007	2055	3	VA
BV2A	21018	0011	30	NC
BV2TA	21023	2346	3	NC
PZ1AP	21023	2331	28	GA
UL7VV	21010	1257	8	GA
V73AS	21025	2351	2	NJ
VS6MV	21015	0017	4	MN
VU2BK	21042	1359	6	VA
ZD8LII	21001	2010	6	NY

15 Meter SSB

7X2CR	21345	1831	2	NY
BZ1OK	21436	0041	31	NY
HV3SJ	21287	1356	29	WV
KG4CO	21213	2154	6	CA
UAØFF	21289	2353	30	IL
ZD7VC	21203	2159	27	CT

12 Meters

A22GH	24908	1443	2	NS
A45ZN	24940	1310	1	VA
AP2JZB	24944	1346	6	NJ
OD5QX	24940	1426	3	VA
SV5AZL	24900	1443	3	NJ
TF3EJ	24894	1500	29	MA
TJ1MR	24980	1611	5	NS
UAØFF	24957	0025	6	VA
V51BG	24959	1559	22	NS
V51KC	24927	1226	30	MA
ZC4DG	24956	1417	6	NS

10 Meter CW

5V7AK	28020	1410	6	NH
7Q7RM	28011	1557	5	MN
CEØFFD	28010	2305	28	GA
EA9TY	28019	1803	3	VA
FH5EJ	28019	1505	7	NH
HKØBDU	28009	1404	1	FL
HKØBKX	28017	1440	4	NH
HKØBKX	28014	2314	6	MN
KG4DD	28025	1508	1	NC
OX3RA	28031	1478	6	NH
TA3D	28011	1602	5	MN
XT2BW	28032	2145	3	MN
ZS9A	28022	1420	6	FL

10 Meter SSB

3DAØBK	28507	2000	6	CA
5R8JD	28510	1534	29	IL
7X2DG	28644	1540	31	MN
7X2HM	28426	1258	25	ME
9J2FR	28573	1448	5	MD
9L1SC	28543	1629	6	FL
9M8AJ	28517	0132	30	CA
A22AA	28468	1709	6	MD
A22JP	28493	1608	5	MD
A47RS	28470	1348	30	NC
A71CD	28650	1312	3	NY
C53GB	28455	1528	5	MD
CEØZTY	28495	1455	1	FL
CN8ST	28392	1739	1	WV
EA9IB	28476	1718	29	MI
FH4EH	28510	1505	29	IL
FOØIGS	28492	1713	6	MD
FP5DX	28476	2207	6	CA
FR5CN	28516	1353	5	PA
HKØTCN	28436	1506	1	FL
HV3SJ	28495	1620	1	NC
JY3ZH	28478	1445	6	VA
KG4TG	28467	1744	2	FL
OY2J	28477	1545	5	VA
OY9JD	28489	1224	25	ME
SV9AKI	28471	1521	5	VA
TU2QQ	28518	1650	2	CA
UC2AB	28646	6141	31	WV
V73BY	28439	2128	1	MD
V85HG	28478	0136	4	CA
V85GA	28475	2350	4	MD
VK9NS	28475	0025	1	NH
VR6BX	28447	1907	1	MD
VU2DNL	28572	1515	30	IA
VU2GI	28343	1335	30	VA
Z21BA	28650	1824	5	MD
ZD7VC	28463	1733	6	MD
ZU1B	28376	2002	6	MD

6 Meters

9L1US	50117	1449	1	NS

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Issue 571 - January 18, 1991

Current and Future DXpeditions

(Changes and hot info in **boldface**.)

DXCC Country	Prefix	Callsign	Dates	Issue
Afghanistan	**YA**	**YAØRR**	**Now-Jan. 20**	**I569**
Anguilla	**VP2E**	**/AA1M & NR1R**	**Jan.28-Feb. 4**	**I571**
Antarctica	**KC4**	**KC4/W6ZH**	**Jan. 19-20**	**I570**
Ascension	ZD8	**ZD8Z**	**Jan. 22-29**	**I571**
		ZD8VJ	**Jan. 14-June**	**I568**
Auckland Is.	**ZL9**	**ZL9/W6ZH**	**Feb. 2-4 CW**	**I570**
British Virgin I	**VP2V**	**VP2V/W2GUP**	**Jan. 18-Mar. 6**	**I568**
Cameroon	**TJ**	**TJ5CW/YL**	**Feb. 15**	**I571**
Cayman Is.	**ZF**	**ZF2NJ**	**Jan. 19-Feb. 2 CW**	**I567**
Eastern Malaysia	**9M**	**9M8AX, BZ**	**Jan. 25-27**	**I568**
Fiji	**3D**	**3D2QB**	**Now-May 1**	**I569**
Grenada	**J3**	**J37XC**	**Now-Mar. 31**	**I565**
Lord Howe Island	**VK9**	**VK9LM/LA**	**Feb. 15-Mar. 6**	**I571**
Niue	ZK2	ZK2XA/XB	in Jan.	I566
Revillagigedo	**XF4**	**XFØC**	**Jan. 18-Feb. 3**	**I571**
San Felix	**CEØ**	**XQØX**	**Now SSB only**	**I563**
South Cooks	**ZK1**	HA8XX, HA9RE	**Now-Jan. 31**	**I566**
		ZK1XU	**Jan. 25-Feb. 25**	**I570**
Turks and Caicos	**VP5**	**VP5V**	**Mar. 1-8**	**I571**

Contributors

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Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
▪ **Algeria**	7X4AN	40M CW	2315Z
▪ **Algeria**	7X2DG	28600±	1600Z
▪ **Antarctica**	Y9ØANT	14010±	01-0400Z
▪ **Botswana**	A22AA	18077	2100Z
▪ **Botswana**	A22GH	20M CW	2200Z
▪ **Ceuta & Melilla**	EA9IB	28475	1700Z
▪ **Crete**	SV9BAI	7004	0030Z
▪ **Easter Island**	CEØFFD	28010	2300Z
▪ **Ivory Coast**	TU2QQ	28520	1700Z
▪ **Ivory Coast**	TU2UI	14230±	0200Z
▪ **Malawi**	7Q7ED	14022	1900Z
▪ **Mauritius**	3B8FK	14022	0230Z
▪ **Mayotte**	FH5EJ	28017	1500Z
▪ **Mongolia**	JT1CS	14025±	01-0300Z
▪ **Nigeria**	5NØETP	3795	2200Z
▪ **Pakistan**	AP2ZR	14180±	0200Z
▪ **Pitcairn Island**	VR6BX	28480±	19-2300Z
▪ **Qatar**	A71CD	28650	1300Z
▪ **Rwanda**	9X5HG	21035±	21-2300Z
▪ **Senegal**	6W1QB	3504±	21-0500Z
▪ **Senegal**	6W2EX	14020	0130Z
▪ **Senegal**	6W6JX	14020	2330Z
▪ **Sierra Leone**	9L1US	80M CW	21-2330Z
▪ **South Shetland Is.**	HFØPOL	14003	0400Z
▪ **Sri Lanka**	4S7CF	20M CW	00-0200Z
▪ **Sri Lanka**	4S7WP	14007	2345Z
▪ **Suriname**	PZ1AP	15M CW	2330Z
▪ **Swaziland**	3DAØBK	7008	0315Z
▪ **Tadzhikistan**	UJ8JI	7010	1300Z
▪ **Turkmenistan**	UH8EA	3511	0200Z
▪ **Turkmenistan**	UH8EA	7010±	2220Z
▪ **Turkmenistan**	UH8EA	14026	2350Z
▪ **Vatican**	HV3SJ	21290	14-1700Z